

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 02243816  
PUBLICATION DATE : 27-09-90

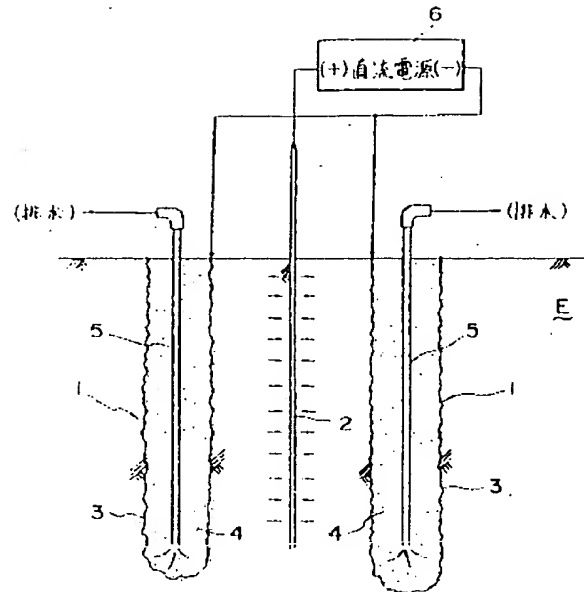
APPLICATION DATE : 17-03-89  
APPLICATION NUMBER : 01063932

APPLICANT : OHBAYASHI CORP;

INVENTOR : KIMURA KAORU;

INT.CL. : E02D 3/11 E02D 3/10

TITLE : IMPROVING METHOD FOR SOFT GROUND



**ABSTRACT :** PURPOSE: To shorten the construction period by forming pack bags in the ground from conductive fiber, burying a conductive member such as a reinforcement bar close to the pack bag, and applying direct current voltage between the bag as a negative electrode and the conductive member as a positive electrode.

CONSTITUTION: A sand pile 1 is so formed in a soft ground E that its interior is filled with sand 4 and outer circumference of the sand pile 1 is surrounded with a pack bag 3. The pack bag 3 is long shaped bag made of conductive fiber such as carbon fiber and connected to the negative electrode of a direct current electric source 6, and a conductive member 2 is connected to the positive electrode. Next, direct current voltage is applied between the conductive member 2 and the pack bag 3, free water in the ground E is moved to the pack bag 3 side by electroendosmose phenomenon to be collected in the sand pile 1 and drained to the ground surface side through a wellpoint 5. Hereby, free water is rapidly collected and drained, and the construction period can be shortened.

COPYRIGHT: (C) JPO